DESCRIPTIVE CATALOGUE,

PHOTOGRAPHIC APPARATUS

CHEMICAL PREPARATIONS,

Manufactured and Sold by

FREDERICK J. COX.

OPTICIAN, &c.

26 LUDGATE HILL, LONDON, E.C.



Fig.1.

TERMS: Cash.-Orders from the Country or Abroad, accompanied by a Remittance, or Reference for Payment in London, will receive immediate and careful attention.

Post-office Orders to be made payable to FREDERICK Cox, at the Chief Office. Cheques crossed 'London and County Bank.'

Notice. Postage stamps will not be received in payment for amounts exceeding four shillings.

COMPLETE SETS OF APPARATUS.

Landscape Apparatus.

No. 1. Set of Apparatus for Landscapes or objects in still life by the Collodion process, including a camera for pictures up to 41 x 31 inches. Achromatic lens, in brass mounting, camera stand, bath and dipper, glass plates, and all necessary £2 12 6 chemicals, varnish, &c., packed in box

The Student's Set.

- No. 2. For the Collodion process, including an expanding camera with superior double achromatic lens to take portraits or views, 41 x 31 inches, tripod stand, bath, dipper, plate-box, plates, glass measure, funnel, scales and weights, collodion, nitrate-of-silver bath, developing solution, fixing solution, and varnish, in stoppered bottles, litmus paper, and book of instructions, packed in a strong box £3 10 0
- No. 3. Apparatus and Chemicals same as No. 2, but adapted for pictures up to 61 × 43 inches

The Artist's Set.

No. 4. Superior polished Camera for the Collodion process, and double achromatic lens of the best quality, with Waterhouse diaphragms, arranged for views, portraits, and cartes de visite, or album pictures; capable of producing portraits up to 41 × 31 inches, or views 5 × 4 inches, including tripod stand, bath and dipper, plate-box, glass measure, funnel, scales and weights, printing frame, albumenized paper, porcelain pan, iodized collodion, nitrate of silver, protosulphate of iron, glacial acetic acid, nitric acid, pyrogallic acid, hyposulphite of soda, gold solution, acetate of soda, amber varnish, and glass plates, all of the best quality, complete in case with separate divisions for bottles, and lock and key, as fig. 1

This set is frequently fitted up and adapted for producing Stereoscopic pictures.

See No. 11, price 71. 78.

The Tourist's Set.

No. 5. PORTABLE SET OF APPARATUS, taking landscapes up to 81 x 61 inches, consisting of a mahogany camera, with bellows body, dark slides, &c., fitted with a guaranteed lens with rackwork adjustment on a rising front, portable jointed tripod stand, ebonite bath with air-tight top, two plate-boxes and glass plates, glass and porcelain pans, glass measure, funnel, printing frame, scales and weights, prepared paper, and all the necessary chemicals, packed in case complete ...

A double-combination lens for taking portraits up to $6\frac{1}{2} \times 4\frac{3}{4}$ inches, for which the camera is especially adapted, can be supplied in addition to the landscape lens; £17 0 0 price complete

The Artist's Set, extended Size.

No. 6. APPARATUS the same as No. 4, but adapted for portraits up to $6\frac{1}{8} \times 4\frac{3}{4}$ inches, and views 7×6 inches, consisting of a double achromatic lens of the best quality arranged for both portraits and landscapes, a mahogany expanding camera, dark slide and focussing screen, tripod stand, printing frame, bath and dipper, two plate-boxes and twenty-four plates, two glass measures, two funnels, glass rod, scales and weights, albumenized paper, two porcelain pans, and all the necessary chemicals, as No. 4

The Traveller's Set.

No. 7. PORTABLE APPARATUS, similar to No. 5, arranged for views up to 10 × 8 inches, with guaranteed lens, and rackwork adjustments, sliding fronts to camera, tripod stand, bath and dipper, plate-box and plates, large and small measures, funnels, porcelain pans, scales with glass pans, and weights, prepared paper, chemicals and every requisite

The Artist's Set, full Size.

No. 8. Apparatus the same as No. 4, for portraits up to $8\frac{1}{2} \times 6\frac{1}{2}$ inches, with guaranteed lens, in brass rackwork mounting, mahogany expanding camera, tripod stand, printing frame, scales and weights, &c., and chemicals for the positive and negative process, packed in a strong case ... £18 18 0

The Universal Set.

No. 9. A COMPLETE SET OF APPARATUS, for portraits by the collodion process, up to $8\frac{1}{2} \times 6\frac{1}{2}$ inches, and views 10×8 inches, with best mahogany expanding camera, dark slide, frames, and focussing screen, a double-combination achromatic lens of the best quality, mounted in brass with rackwork, and central diaphragms for portraiture; also a 3-inch landscape lens, best quality, in rackwork mounting, with stops for views, camera stand, dipping bath, printing frame, scales and weights, glass measures, funnels, glass plates and rods, packed in strong case £21 0 0

Complete service of chemicals for this set, see page 4.

STEREOSCOPIC SETS.

No. 10. Set of Apparatus for taking Stereoscopic pictures, consisting of a binocular camera, and pair of good achromatic lenses, tripod stand, bath and dipper, plate-box and plates, glass measure, funnel, scales and weights, collodion, nitrate-of-silver bath, developing solution, fixing solution and varnish, in glass-stoppered bottles, litmus test paper, and book of instructions, the whole packed in box

£5 0 0

No. 11. Superior mahogany camera, fitted with a best double-combination achromatic lens, with stop and adapter for landscapes and portraiture, mounted on a mahogany table with parallel lath, as fig. 11, capable of taking stereoscopic pictures, cartes de visite, and portraits, up to $4\frac{1}{4} \times 3\frac{1}{4}$ inches, and views 5×4 inches, tripod stand, bath and dipper, plate-box and plates, collodion, nitrate of silver, chloride of gold, and all necessary apparatus and chemicals, of the best quality, packed in case, with separate divisions for bottles, &c.

Tourists' Stereoscopic Set.

• No. 12. Tourists' stereoscopic camera for the dry process, page 13, with three double dark slides, landscape lenses, stand, focusing screen, plate-box and plates, chemical chest for the dry collodion process and printing on paper, including a pressure-frame, scales and weights, glass measures, pans, &c. &c. £12 12

Combined Apparatus.

No. 13. An Improved Set of Apparatus, suitable for general purposes, including a mahogany camera with rising front, and a pair of portrait lenses, arranged to take either portraits or views, with Waterhouse's system of central diaphragms, similar to fig. 13; stand, pressure-frame, bath, chemicals, and all the necessary appliances, similar to set No. 11. This apparatus is designed for the ordinary stereoscopic portraits and views, and is particularly available for cartes de visite, or ordinary portraits, up to $4\frac{1}{4} \times 3\frac{1}{4}$.

An Achromatic-View Lens can be had, with an additional rising front for landscapes on the whole size of plate, $7\frac{1}{4} \times 4\frac{1}{2}$, at an extra expense of £2 7s. 6d.

Pocket Set.

NO. 14. SET OF APPARATUS, consisting of a pocket bellows-body camera, as fig. 14, with three double dark slides, carrying plates $4\frac{1}{4} \times 3\frac{1}{4}$, fitted with a best single achromatic lens and tripod stand; the apparatus packed for travelling in a case with separate divisions, including all necessary chemicals, dropping bottles, developing stand, dish, and one dozen prepared plates ready for exposure, and everything required for working whilst on a few days' tour

£8 8 0

Sling Leather Case to carry the camera and dark slides for the days' work 16s.

extra.

Practical instructions are given to purchasers of complete sets; and if residing in the country or abroad, any further information than is contained in the Compendium of Photography will be sent by letter.

FREDK. J. Cox recommends the sets Nos. 4, 5, 6, 7, 8, 9, 11, 12, 13, and 14, as being of the very best quality, and with them (if required) a picture taken by the Instrument will be sent. They are packed in cases with compartments for the bottles, &c. (See fig. 1.)

For Tropical Climates, a special description of apparatus will be

supplied at an extra cost of 15 per cent.

CHEMICAL CABINETS FOR AMATEURS OR EXPORT.

Containing a supply of chemicals for the Negative process, including 40 ozs. negative collodion, 3 ozs. recrystallized nitrate of silver, 20 ozs. glacial acetic acid, 20 ozs. pure alcohol, 16 ozs. protosulphate of iron, 4 ozs. citric acid, 4 ozs. formic acid, 2 oz. nitric acid, 2 ozs. sulphuric ether, 1 oz. pyrogallic acid (best), $\frac{1}{2}$ oz. iodine, $\frac{1}{2}$ oz. iodide potass, 2 bot. varnish, 3 bot. glass polish (large), 2 packets filtering paper and litmus paper, all packed in stoppered bottles, and plain wood case

Containing a supply of chemicals for the printing process, including 6 oz. nitrate of silver, 1 quire best albumenized rive paper, 1 quire ditto Saxe paper, 2 lbs. kaolin, 1 lb. acetate soda, 2 drachms of chloride of gold, 7 lbs. hyposulphite of soda, 2 lbs. dextrine, 8 oz. carbonate of soda, all packed in jars, &c., and in plain wood case,

If required, cabinets with separate divisions, similar to fig. 1, can be provided at a moderate price. Larger sizes at a proportionate cost.

ACHROMATIC LENSES FOR PHOTOGRAPHY.



Fig. 2.



Fig. 3.

The lenses chiefly used for Photographic purposes are the single achromatic, the double achromatic, and the achromatic triplet.

The Double Achromatic, although arranged for Portraiture, can be adapted for Landscape purposes by removing the back combination, and placing a diaphragm in front of the cemented first pair of lenses; or for Groups, where rapidity is an important consideration, by placing a stop or diaphragm between the two sets of achromatic combinations: for which purpose Waterhouse's arrangement of diaphragms is convenient.

The Single Achromatic is recommended for Landscape purposes: they are supplied with diaphragms to contract the rays of light.

For Architectural purposes, or copying, the triplet is an improvement cier the single achromatic; the difference is especially seen in copying, as the whole of the map or drawing is in perfect focus, up to the corners, and the marginal lines are not distorted.

PORTRAIT COMBINATIONS,

OF OUR OWN MANUFACTURE, WITH CENTRAL DIAPHRAGMS

Double Achromatic Lens, consisting of a combination of four glasses securing perfect achromatism, close coincidence of the rays, and flatness of field; in brass rackwork mountings, and fitted with central diaphragms, as fig. 2, of the best quality (MAKER'S NAME ENGRAVED):

						£	3.	d.
For Portraits	10 ×8	inches	1900 30	3100 103			0	
,,	81×61	"		and the same of the		9	15	0
	61×43	17		Man of the	0.000	4	10	0
,,	5 ×4	"		Si Seeman	1	3	10	0
"	41 × 31	,,				2	5	0
33	31 × 23	- "				2	0	0

The smaller size lenses are also made with a simple and efficient adapter, to reverse the front combination, by which means they are applicable for taking views, &c. With them there are stops fitting into the front hood, in addition to the central diaphragm.

For Portraits	$6\frac{1}{2} \times 4\frac{3}{4}$	inches,	and Views	8×6	inches	£5	0	0
,,								
MEN TO ARREST NAME OF						2	7	6

SECOND QUALITY.

Portrait combinations of good average quality, the chemical and visual focibeing corrected, with rackwork adjustments.

For Portraits up	to $8\frac{1}{2} \times 6\frac{1}{2}$	inches			£6		
	$6\frac{1}{2} \times 4\frac{3}{4}$		The state of the s				
",	$4\frac{1}{4} \times 3\frac{1}{4}$,,		0	. 1	5	0

c purposes are the single achronotic

diaphragms

CARTE-DE-VISITE PORTRAIT LENSES,

OF OUR OWN MANUFACTURE.

No. 1. Portrait combination, requiring for the ordinary sized picture a distance of 13 feet between the figure and the lens, with Water-	£ . d.
house diaphragms, fig. 2	2 5 0
No. 2. Quick-acting combination, requiring a distance of 15 feet between the figure and lens, with Waterhouse stops	3 10 0
No. 3. Large-aperture combination, 2\frac{3}{3} inches' diameter, 6-inch focus, working at a distance of 18 feet, rackwork adjustment, and central	

These lenses can be had in pairs, or in sets of three or four of identical foci, if required.

4 10

CABINET LENS.

Quick-acting achromatic combination, $2\frac{5}{8}$ inches diameter, $6\frac{1}{2}$ -inch focus, working at a distance of 15 feet, central diaphragms 6 6 0

INSTANTANEOUS MEDALLION LENSES.

F. J. COX'S LANDSCAPE LENSES,

consisting of an achromatic combination in brass mountings, with stops for regulating the light. Fig. 3.

2 2	The second second						The State of the S				
Inche					With ra	ckwork	adjust	ments	In plair	elidi.	ig tubes.
18	diameter	for Stereo	sconic	Diatur	100	Pi	4 0	THEOLEGO.	In plan	DIAME	
13		for Stereo	scopic	1 ictur	es	£1	4 0		£0	18	0
	"	101 1 1Ctul	es o x	4 inc	nes		1 6		. 1		0
2	"	ditto	74 ×	41		9	9 0		1		
21	"	ditto	8 4	6	,	0 7	0 0				0
2 1 3		3:44	8 x	0 ,	,	2 1	UU		2	2	0
	"	aitto	10 ×	8 ,		4 1			4	0	0
31/2	"	ditto	12 ×	10 ,						30000	
4	,,		15 ×	200							0*
5	"				,				7	0	0*
3	"	ditto	18 ×	16,	,				14	0	0*

* These lenses have rigid mounts, not sliding tubes.

A pair of twin lenses, 5-inch focus, in	brass	sliding tubes,	for	
the Stereoscopic Camera, fig. 12	5'0 E	ic Comera	15000	1 17 6
Ditto, with rack and pinion adjustments	2000	of elame is fo	4.3	2 10 0

A pair of 5-inch focus lenses are more generally useful, but occasionally it is impossible to get sufficient distance from the object to include all the subject on the stereoscopic plate; in which case a pair of short-focus (4-inch) will effect the purpose: they can be had mounted in cells to screw into either the above mountings, packed into a neat leather case, at an additional cost of 25s.

SINGLE ACHROMATIC LENSES,

UNMOUNTED.

13-i	nches	diameter	:	8 s. 0 10	d. 0	3-inches diameter	£ 3	* 3	d.
14	39.	(99 /	 	0 14	0	31 ,,	4	0	0
91	"	" 1	 	1 1	0	4 ,, ,,	5	15	0
-4	"	"	 	1 5	0	5 ,, ,,			

F. J. COX'S ACHROMATIC TRIPLET,

FOR ARCHITECTURAL OR COPYING PURPOSES.

This combination has been especially designed for avoiding the evils of distortion and bad marginal definition: it consists of a pair of cemented achromatic lenses, with a concave or dispersing lens placed between them; the exposure required is slightly longer than with the single achromatic; by removing the central concave lens and retaining the two achromatic combinations without the central concave, it is converted into a useful, quick-acting portrait lens, especially suitable for groups.

They are mounted in a strong brass tube, with Waterhouse diaphragms.

No. 1	for	Pictures	up to	74×	4½ inches	 £3	3	0
.,, 2		****	1	81 ×	$6\frac{1}{2}$,,	 4	4	0
,, 3		,,,		12 ×	10 ,,	 8	0	0

Central Diaphragms fitted to lenses. Racks and Pinions repaired, and alterations of every description.

CAMERAS.

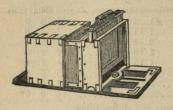




Fig. 4.

Fig. 5.

Photographic Cameras are made in two forms—that is, either vertical or square; the latter shape is for the purpose of taking the collodion plate either in a horizontal or vertical direction, for groups, &c.

POLISHED MAHOGANY CAMERAS,

OUR OWN MANUFACTURE.

Made of good seasoned mahogany, French polished, with dark slide, two plate-carriers, silver-wire corners, and focus screen.

For Pictures up to		ertic	al.			5	quar	e.
	£	3.	d.			£	3.	d.
$4\frac{1}{4} \times 3\frac{1}{4}$ inches	0	15	6	 	 	1	0	0
5 × 4 ,,								
$6\frac{1}{2} \times 4\frac{3}{4}$,								

These Cameras are recommended as a good serviceable article for indoor use. If extra plate carriers are required, see p. 17.

BEST-MADE MAHOCANY CAMERAS.

French polished, with expanding body, one dark slide, two carriers for plates, and focussing screen.

For Pictures up to	Vertical or Horizontal.	Square.			
To little the state of the stat	£ s. d.	£ 3.	d.		
5 × 4 inches	1 3 6	1 15	6		
61 × 43 ,,	1 14 0	2 5	0		
	2 0 0		6		
	2 0 0	3 0	0		
81 × 61 ,,	2 15 0	3 10	0		
	3 13 6	4 10	0		

Rising fronts. 5s. extra; or rackwork adjustment, 7s. 6d. to 10s. 6d. extra.

SPANISH-MAHOGANY CAMERAS.

Of the very best materials and workmanship, with rising fronts for regulating the amount of foreground and sky without slanting the camera. Fig. 4.

The bottom board folds up, and for portability an extra groove is made to carry the focus screen.

For Pictures up to	Vertical or Horizontal.	Square. Brass Binding extra.
11 × 9 ", 12 × 10 ",	. 6 10 0 . 7 15 0 . 10 0 0	£ s. d. £ s. d. 6 10 0 1 7 0 7 10 0 1 10 6 8 10 0 1 15 0 10 0 0 2 5 0 12 10 0 2 12 0 19 0 0 3 0 0

The prices include one dark slide, two inner carriers for collodion plates, and foous screen; for tropical climates, brass binding is recommended.

FOLDING CAMERAS.

Folding Mahogany Cameras (fig. 5), with double-action sliding fronts, one dark slide, two holders for collodion plates, and focusing screen.

These cameras are not so portable as the Kinnear's Camera, but are preferred by some operators, more especially in tropical climates.

9×7 .. £4 10s. 10×8 .. £5 5s. 12×10 .. £7 10s.
Brass bindings, 20s., 28s., and 35s. extra.

BELLOWS BODY CAMERAS.



Fig. 6.



Fig. 6a.

Bellows-body Cameras, square (fig. 6), with dark slide, focus screen, carriers, jointed bottom-board, and leather bellows.

	, 3	ou socooni-	Dour	u, anu i	cai	пег	per	TOM	S.				
1	P. n.				£	8.	d.		Best quality,	£	8.	d.	
-	for Picture	es up to 44	× 34	inches	, 1	10	0		with rising front	 2	5	0	
	"	5	× 4	"	1	16	0		,,		17		
	"	$6\frac{1}{2}$	× 43	"	2	10	6	3.5	A HODOSO		13		
	"	81 :	× 61	"	3	17	6		"		10		
9	"	10 ;	x 8	**				(SA)			1000		
	"	12	×10	"					rests to sue steer	-	10	0	

Steel screw and winch handle for adjustment of focus, 12s. 6d., 14s., 15s., 17s. 6d., 20s., and 22s. 6d. additional in either quality.

IMPROVED KINNEAR'S CAMERA.

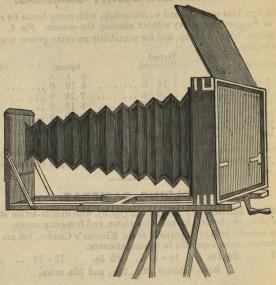


Fig. 7.

The Kinnear Camera (fig. 7), as manufactured by FREDERICK J. Cox, have every recent improvement to insure rigidity, strength, and portability. They are supplied with a screw-adjustment for focussing, focus screen, one dark slide, and two plate-carriers.

Plain. Brass-bound. Russia Leather.

plate-carriers.		P	lain.	Brass-box		Russia Leather.		
For Views, 9	× 7 inches	G	s. d. 0 0	7 0	0	7 10	U	
10	x 8 ,,	6 1	6 0 8 0	8 0	U	9 9	U	
" 15	×10 ,, ×12 ,,	10	0 0	12 10	0	14 0	0	

By a very simple arrangement, all the advantages of a swing back are obtained without increase of weight or expense.

For exportation, Russia-leather bellows are preferable, as they are not so readily attacked by insects.

BROOCH AND LOCKET CAMERAS.

CARTE-DE-VISITE CAMERAS.

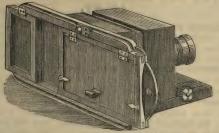


Fig. 8.

Binocular Camera, best make, for front and movable partition	plates $7\frac{1}{4} \times 4\frac{1}{2}$	or $6\frac{1}{2} \times 4\frac{1}{4}$, with rising $\pounds 2 \ 10 \ 6$
Sliding-back Camera, carrying a visite negatives can be taken by one lens Ditto, with rackwork adjustment, fig. 8	plate $6\frac{1}{2} \times 4\frac{1}{4}$, o	on which two carte-de- £1 16 6
Extra dark slide and two carriers for ordinary		

ARTIFICIAL LICHT APPARATUS.

MAGNESIUM WIRE OF RIBBON.—The price being variable, no fixed quotation can be given; the present rate is 16s. per oz., or 6d. per yard.

HAND REELS OF LAMPS, 12s. 6d.; Ditto, with reflector, 15s.

CLOCKWORK LAMPS, 368.

COMPLETE SET OF OXY-HYDROGEN APPARATUS for the Lime-light, with gasbags, retort, purifier, jet, and Cox's improved double-pressure boards

Ditto, for oxy-calcium light, with coal-gas burner

Ditto, with spirit lamp and zephyr bag

Oxygen mixture, per lb., 1s. 6d. to 2s. (variable.)

Best lime cylinders, per doz. in canister, 2s. 6d.; oxy-calcium, 2s.

DEEP PLANO-CONVEX LENSES,

FOR LIGHT CONDENSERS.

13-inches diameter	 £0	3	0	41-inches diameter				
2½-inches	 0	4	6	6-inches ,,				
3-inches	0	6	6	8-inches ,,				
4-inches	 0	12	6	9-inches ,,	 	3	5	0

For condensers and lenses for Magic Lanterns see Catalogue, Section II.

APPARATUS FOR ENLARGEMENTS BY ARTIFICIAL LIGHT.

Enlargements by Artificial Light can only be practically effected by the lime light, which possesses several advantages over all others. Magnesium is objectionable from the flickering and size of the flame; whilst the electric light is beyond the reach of most photographers, by reason of its expense and trouble. There are two descriptions of lime-light jets in use.

The ordinary form of oxy-hydrogen jet, where both gases are burnt under pressure, and allowed to mix inside the burner before ignition, is certainly the most intense, but requires attention and the use of two gas-bags.

The simpler form which we have perfected and applied with success requires but one gas-bag, the hydrogen being supplied direct from the gas-main, and as the gases do not mix in the jet, all danger of explosion which might arise from negligence in using the mixed gases is avoided: the slightly increased exposure not being considered of any importance.

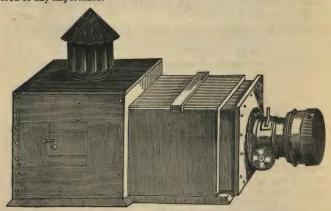


Fig. 9.

Mahogany Camera, fig. 9, with compound 6-inch condensing lenses, Cox's improved hydro-oxygen jet, flexible tubes, gas-bag, containing supply for one hour, pressure-board, retort and purifier complete for making the oxygen £12 0 0

For further particulars as to making the gas, and management of the light, see Catalogue, Section II.: free for two stamps.

As it frequently is not requisite to include the whole of the carte negative in the enlargement, condensing lenses of a smaller size may be used.

The Apparatus as above, with 4½ inch condensing lenses £10 15 0 Ditto, 3½ inch

Large-size bag for 11 hour's gas, 10s. additional.

The usual carte-de-visite lens is recommended, but is not included in these prices. See page 6.

SOLAR CAMERA.

Woodward's Camera, to produce life-size portraits, &c., from a small negative, or for enlarging views, &c. Price, with 9-inch condensing lens, and rackwork adjustments...

ENLARGING AND COPYING CAMERAS.



Fig. 10.*

Bellows-body Camera, of long focus, for ordinary copying	work, of	f good
quality, rising front, square dark slide, and carriers for 5 × 4 plates Ditto for plates 8\frac{1}{2} \cdot 6\frac{1}{2} \text{ inches}	5	10 0
Ditto ,, 10 ×8 ,,	6	16 6

Screw adjustment, 15s., 20s., and 22s. 6d. additional.

Enlarging Camera, fig. 10, consisting of a mahogany case, with double-bellows body, screw adjustment, folding bottom-board. It can be used for reducing or enlarging negatives, or for producing transparent positives, either on ground or opal glass.

With focus screen, dark	slide,	and	carrier for	negatives	,		
up to $8\frac{1}{2} \times 6\frac{1}{2}$ inches					£8	10	0
Ditto 10 × 8 ,,					10		
Ditto 12 × 10 ,,					12		

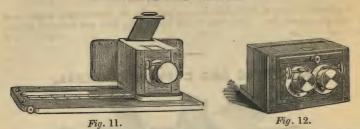
These cameras are suitable for enlarging carte negatives up to the full size of the plate, the usual carte portrait lens being recommended.

*These Cameras are now made with leather bodies, not wood, as shown in the engraving.

BINOCULAR TOURISTS' CAMERA, BELLOWS BODY.

Double backs, each 20s. extra.

STEREOSCOPIC CAMERAS.



Stereoscopic Camera, fig. 11; the camera mounted on a lath, to slide from the right to left. After one picture is taken the camera is moved to the other end of the bar, and the second picture obtained.

Fig. 12 represents a twin-lens or binocular camera, and where rapidity of exposure is an important object, or movable subjects are to be photographed, it is the best instrument to employ.

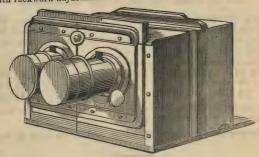


Fig. 13.

Universal Camera. Mahogany camera, fitted with a pair of best-quality portrait lenses and Waterhouse stops, on a rising front. This camera takes a plate $7\frac{1}{4} \times 4\frac{1}{2}$, suitable either for stereoscopic pictures or two carte-de-visite negatives on the same glass

Ditto, with a rackwork separating front, so that the lenses can be fixed a greater distance apart, and is then suitable for large stereoscopic views, &c. (fig. 13) £7 17 6

The same camera can be made available for landscape purposes, on plates the full size, by having an additional rising front and landscape lens, thus producing pictures up to $7\frac{1}{4} \times 4\frac{1}{3}$. The extra expense is £2 7s. 6d.



COX'S POCKET CAMERA.

This Camera is intended for plates $4\frac{1}{4} \times 3\frac{1}{4}$, and when closed measures $5\frac{1}{2} \times 5 \times 2\frac{1}{2}$. It is constructed with a bellows body and rackwork adjustment, the bottom board is hinged, and when not in use turns up and protects the focus screen. Price, including three double backs and best achromatic-view lens

Additional Portrait Lens for this camera, in brass mount, 30s. extra.

TRIPOD STAND, very light brass tube, jointed for portability 1000 0 16 6

Ditto, with wood legs, closing as an alpenstock : recommended ...

This apparatus is designed for Tourists or others who wish to preserve souvenirs of their travels; the pictures are a convenient size for mounting in albums, or for printing transparencies for the magic lantern. Copies from them can also be enlarged at a very moderate cost.

For further particulars see complete set of apparatus. No. 14, page 4.

CAMERA STANDS.



Fig. 15.



Fig. 16.



Fig. 17.



(THE)	TRIPOD STAND, with mahogany top, 3 ft. 6 in.			
///\\	high	£ 0	4	6
#KI AVAI	Ditto, 4 feet	0	5	6
	Ditto, 4 feet 6 inches	0	8	0
	*Polished Ash Stand, with triangular metal			
	top, and stretchers for legs, forming a firm			
	and portable stand for cameras up to stereo-		m 105	28
:	scopic or half size, fig. 15		16	b
48 48	Ditto, larger size 21s. and	1	5	g
	*JOINTED TRAVELLING STAND, with metal top			
	and stretchers for legs, very secure and com-			_
// \\	pact, fig. 18	1	1	0
	Ditto, larger size	1	11	6
	PILLAR STAND for operating-room, fig. 16,			
	made of fir, with rising and vertical adjust-			
	ment	0	10	6
	STANDS for operating-room, with rack for ele-			
	vating and depressing, with table-top in			
Fig. 18.	white wood, fig. 17	1	0	0
	Recommended for out-door work.			
	16000mmonaca 101 out-woot 1101-11			
Ditto, in oak		1	5	0
STUDIO STAND, unpolish	ned, with strong screw adjustments	3.	10	0

5 0 0

SUPERIOR STAND for operating-room, with rackwork LIGHT PORTABLE STANDS suitable for the pocket camera, see page 15.

PLATE-BOXES.

	In D	EAL, DO	VETAIL	ED AND	VARNISHE	D, Tw	ZING N	on-chemical
	for 1	plates.				es. for l	2 plates.	Preservative.
		d.			s. d.			s. d.
2½ × 2 inches					. 1 9			_
3½ × 2¾ ,,					. 1 9			-
4½ × 3½ ,,					. 2 0			-
5 × 4 ,,					. 2 10			
64× 44,					. 3 4			
61× 41,					. 3 4			
7½ × 4½ ,,					. 3 9			
$8\frac{1}{9} \times 6\frac{1}{9}$,,					. 4 6			
9 × 7 ,,					5 6			
10 × 8 ,,					6 6			
12 × 10 ,,	5	6	. 6	6	8 6	8	0	12 6
Stereoscopic	2	0	. 2	6	3 3	3	9	6 6

Wood grooving, 21 inch wide, per foot, 3d. Draining-boxes for wet negatives, with gutta-percha V-shaped grooves and india-rubber cushions, for plates $6\frac{3}{4} \times 3\frac{1}{4}$, 7s.; $6\frac{1}{2} \times 4\frac{3}{4}$, 7s.; $8\frac{1}{2} \times 6\frac{1}{2}$, 8s. 6d.;

 9×7 , 9s. 6d.; 10×8 , 10s. 6d.

PLATE CARRIERS,

Suitable for any form of camera, made of mahogany, with silver-wire corners, any size openings. Outside size, not exceeding—

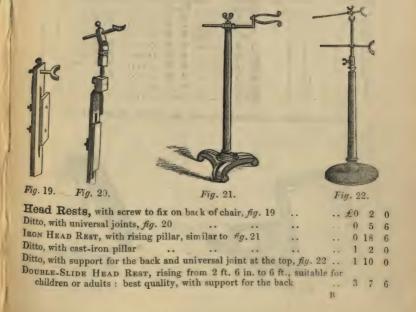
 5×4 7×6 9×7 12×10 15×12 inches, 1s. 6d. 2s. 2s. 6d. 3s. 3s. 6d.

FIELD BOXES.

Made of pine, with divisions to hold chemical bottles sufficient for one day's use, a grooved-division case for glass plates, so arranged that the moisture may evaporate from the finished picture.

Price 1	for 7×6	size		Je. 4 E			61 10	
11	9×7			*	• •		£1 10	0
	10.0	,,	• •				2 0	(9)
"	10 × 0	9.9					2 10	
					21	• •	2 10	U

HEAD RESTS.



DIPPING BATHS.



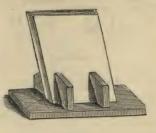




Fig. 23.

Fig. 24.

Fig. 25.

EBONITE BATHS, fig. 23, or with air-tight tops, fig. 25.

PORCELAIN, with mahogany back, fig. 23.

GREEN AND WHITE GLASS BATHS, fig. 24. (Stands extra.)

For Plates.	Ebonite.	Ebonite. ma	Porcelain, ahogany back.	Green Glass Baths.	White Glass Baths.
Inches. $4\frac{1}{4} \times 3\frac{1}{4} \dots$ $5 \times 4 \dots$	Fig. 23. s. d. 4 0	Fig. 25. s. d. 7 0	Fig. 23. s. d. 2 8 3 6	s. d. 2 8	s. d. 3 6 . 4 3
$6\frac{3}{4} \times 3\frac{1}{4} \dots \\ 6\frac{1}{2} \times 4\frac{3}{4} \dots \\ 8\frac{1}{4} \times 6\frac{1}{4} \dots$	6 0 8 0	9 0 11 0 13 6	4 6 6 0	3 8	5 0
10 × 8 12 × 10 15 × 12	10 0 14 6 18 6	16 6 21 0 26 6	9 6	=	13 0

Wood stands for glass baths, 1s. 6d., 2s., 2s. 6d., 3s. 6d., 4s., 5s.



Fig. 26.



Fig. 27.

Solid Glass Baths, in plain deal cases, as fig. 26, with back support and cover to protect from dust, &c.; or in mahogany cases, with air-tight top and clamp screws, fixed in a swing bar, to turn out of the way when in use, as fig. 27.

For Plates.		eal case.	M:	Tight ahoga Fig.	my.	p	Air-7	right Deal.	Top.
44× 34	8.	d.	£	8.	d.		£	8.	đ.
4	5	0	0	18	0		0	10	6
4	7	6	1	0	0		0	14	0
4 "4	7	6	1	1	0		0	16	0
$8\frac{1}{2} \times 6\frac{1}{2}$	10	6	-1	9	0		. 1	3	0
10 × 8	16	0	1	14	6		. 1	7	0
12×10	23	0	2	5	0		1	12	6
Flut	ed-glass Dip	pers, 6d.	94.	10	10	24 1	6 6 6	12	0
Ebo	nite ditto, 1	s. 6d., 1s.	9d.,	28	28.	6d.	, 0u	•	

PORCELAIN PANS.

		Shallov	v	Dee	p.	Shallow. I	eep.
6×5	inches	 0 10		s. 1	d. 2	12 × 10 inches 2 8 8	. d.
7 × 3½ 8 × 6	"	 1 0		1	2	14×12 4 9	6
10×8		1 2					0
	"	 1 10		2	2	18×16 , 9 6 12	6

GLASS DISHES.

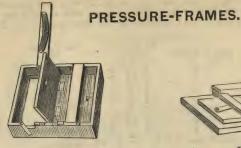
Perfectly smooth and flat, made of stout green glass.

			3.	d.		s. d.
	×34 inches	6.0	2	0	9 × 7 inches	3 9
6	× 4½ ,,		 2	0	11 × 9 ,,	4 9
8	×6 ,,	44	 2	6	$12\frac{1}{2} \times 10\frac{1}{2}$	6 9

EBONITE TRAYS.

8 × 6	91 × 71	11 × 9	12½ × 10½	13 × 11
48. 6d.	58.34.	6s. 3d.	8s. 3d.	8s. 9d.

GUTTA-PERCHA TRAY, 24×19 , in Wood Trough, to hold the whole sheet of paper, 30s.





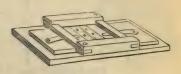


Fig. 29.

hions.

Pressure-Frames with jointed backs, for viewing the development of the picture without disturbing the paper, the cross-bars fitted with springs for equal pressure, fig. 28.

		3	Plain As	h,	Polis	shed M	ahogan
		compl	ete with	glass.	with Ind	lia-rub	ber Cus
	A 100 m A 1 m		S.	d.		8.	d.
For Stereoscopic	plates		4	0		7	6
Ditto, for Plates	6×5 inc	hes	4	0		9	6
21000, 1111	8× 6		5	6		9	6
	10 × 8		8	6		12	6
**************************************							0
	17×14	,,					0
99	II VII	,,	20				

The 10×8 inches and larger sizes may be had with the bars placed in a longitudinal direction (by this means they are more available for printing from several small negatives at one time), at 6d. each extra.

Varnished Pine Prossure-Frame, improved make, fig. 29.

 $4\frac{1}{4} \times 3\frac{1}{4}$, 1s. 2d. each, 12s. per doz.; 5×4 or $6\frac{3}{4} \times 3\frac{1}{4}$, 1s. 4d. each, 14s. per doz.

 $6\frac{1}{2} \times 4\frac{3}{4}$ or $7\frac{1}{4} \times 4\frac{1}{2}$, 2s. each, 21s. per dozen; $8\frac{1}{2} \times 6\frac{1}{2}$, 3s. 4d. each.

Teak-wood Frames, $\frac{1}{4}$ size, 7s., $\frac{1}{2}$ 10s., $\frac{1}{2}$ 16s. per doz.

In less quantities, 9d., 1s., 1s. 6d. each.

Opalotype Pressure-Frames, made to register with exactitude.

1 plate 68.; 1, 7s. 6d.; 1, 8s. 6d.

Cox's Improved Tinting-Frame, for tinting backgrounds and double printing, with directions for use, price 1s. 6d.

This frame is very simple, but extremely useful where masks are used.

Cox's Vignetting Frame, for printing vignettes of any form or size without vignette glasses, and with much greater delicacy, with directions. 4-plate, 2s. 6d.; \(\frac{1}{3}\), 3s.; \(\frac{1}{3}\), 3s. 6d.

Felt Pads, for pressure-frames-

5×4 $5d$.	6×5 $6d$	8 × 6 & d.	10×8 $10d$.	12×10 $1s. 6d.$	$\begin{array}{c} 17 \times 14 \\ 2s. \ 6d. \end{array}$
5d.	oa.	cu.	Tou.	101 044	20.000

VIGNETTE GLASSES

are made of two descriptions, viz. with transparent or opaque centres; the former are used for paper prints, and the latter to produce vignettes on glass positives.

Outside Size.	Transparent.	Images 1	0 1 13 01		
	and parents.		Outside Size.	Transparent.	Opaque.
$\frac{2\frac{1}{2} \times 2}{3\frac{1}{4} \times 2\frac{3}{4}}$,, $\frac{1}{4} \times 3\frac{1}{4}$,,	s. d. 0 6 0 8 1 2	2 4 2 6 3 0	$6\frac{1}{2} \times 4\frac{3}{4}$ inches $8\frac{1}{2} \times 6\frac{1}{2}$, Stereoscopic Carte de Visite	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	s. d 4 8

** The openings can be had of any size or shape.

Cox's Vignetting Frame—see Pressure-Frames. Paper Masks—see Miscellaneous Apparatus.

RETOUCHING FRAMES.

RETOUCHING DESK OR reflector	FRAME,	plain n	nahogany,	for 1/4	or ½ plate,	with	s.	d.
Ditto, superior, with lid							12	6
Ditto, superior, with lid	• •						17	6
Ditto, for ½ or ½ plate		/					21	0.
	Faher's	Pencil	e host 64	anah				

BACKGROUNDS AND ACCESSORIES.

PAINTED BACKGROUNDS.

Feet.	Plain	per.	Flat	ted (Oil.	in	a Di	enic	aper.	Sc	enic	
8×6	 0 16	0	 1	1	0	****	1	5	d. 0	 1	s. 11	d. 6
9×7 12×9	 1 10	0	 1	16	0		2	2	0	 2	10	0

These Backgrounds are painted in a neutral colour, either brown or grey, and those in flatted oil are not liable to injury from damp. They are all mounted on rollers and fixed to a bâton.

Graduated background, in	flatted	oil, for	the 'Remb	randt vig	nette,			
mounted on roller						£1	2	6
Side-slips, doors, windows, c	urtains,	columns,	&c., distem	per on line	n cloth	- 0		
Ditto, ditto, flatted oil						0		6
Cloth background, without	crease	or seam,	either dral	or slate	olour.			0
8 ft. by 6 ft						1	7	6
Solid wood pedestal						0		6
Ditto, full size						0		6
Pedestal and fluted pillar							17	6
Balcony rail, 4 ft. long						1	0	0
Solid universal, containing	ten ch	anges, fo	rming pian	o, writing	-table,			-
bookcase, &c				**		7	17	0
Solid rustic chairs and stile	s. each	21s. to				1	10	0

Profile chairs, tables, or piano

13s. to

0 18

ROLLING PRESSES.



Rolling Press, with cylinders $3\frac{1}{2}$ in. diam., centre pressure screw, geared motion, fig. 30.

With steel plate . 12×9 . £5 10 0 with iron bed . £6 6 0 3 15 0 $\frac{12}{3}$

Polished steel plates, separate from the Machines, price 24d. per square inch.



Fig. 31. Fig. 32.

Rolling Presses without steel plates are equally as efficient for the smaller sizes, and are generally employed; the difficulty hitherto has been to obtain a sufficiently bright surface to the roller, and also to preserve that polish from tarnish or rust.

We are now enabled to supply Presses with highly-polished rollers that have been Nickel-plated.

THE NICKEL-PLATING is an effectual preservative from rust.

The surface polish is far more brilliant.

It will not tarnish like silver, or require greasing like steel.

It can be cleaned with water like common earthenware, and retains its polish without any polishing powder.

Potent without any potenting powder.			
Cox's IMPROVED ROLLING MACHINE, fig. 31, for \(\frac{1}{2}\)-plate or cabinet			
pictures, with highly-polished rollers (recommended)	£1	15	0
Ditto, ditto, with Nickel-plated rollers	2	2	0
CARTE-DE-VISITE Press, fig. 32, constructed on the principle of Sellers'			
machine (our own manufacture), steel roller	1	0	0
Ditto, Nickel-plated	1	5	0

Some years' experience enables us to recommend these machines with confidence. Notwithstanding their low price, they are really serviceable, doing their work well, quickly, and with ease.

Iron Press and Die for Cameo	Pictures .			 £1	0	0
Cutting Punches for Small Ove	als	(3.)	3, 25	 0	4	0

PLATE-HOLDERS, &c.







LEVEL	LING STANDS,	with three ac	ljusting	screws,	for small	plates, fi	g. 33	2	3
	,,	for 1-plates				• •	• •	3	0
		for \-plates						4	6
		for large plat						6	6
SCREW	PLATE-HOLD				hilst clean	ing, up to	61×43	4	0
	TENTE-HOLD	E10, J.J. 02, 0					10×8	5	6
15		. ?7		,,			15 × 12	7	6

LEVER PNEUMATIC HOLDERS, fig. 35, very superior .. 2





			746
Fig. 36.	Fig. 37.	V///	
GLOBE PLATE-HOLDERS, with elastic ball, fig. 3	le	3 4	6 9 6
DEVELOPING HOLDER, fig. 37, improved spring developing; they are so contrived as to be clean hands without risk of staining the plate Ditto, for larger plates	free from metal and incu	re 2	6

OPERATING TENTS AND DEVELOPING BOXES.

Wheelbarrow Tent. This is arranged so as to enable the Tourist to convey all his apparatus, &c. without help; it is a square tray fitted with a pair of handles and a wheel, is easily taken to pieces, and packs up into a small flat parcel for conveyance by rail, &c.: including water-sink and waste-pipe £3 10 0

Cox's Improved Box Tent, suitable for working plates up to 9×7 inches, it is formed by the box lid opening up to an angle of 90° , and forming the front of the tent. The waterproof cover is thrown over the head, and fastens round the waist, whilst the box itself is supported on a polished ash stand, with metal triangle top. Price, including stand, waterproof cover, waste pipe, and sink $\mathscr{L}5$ 10 0

Howard's Tent. A Portable India-rubber Tent, supported by the camerastand. Extremely useful for shifting dry plates, or for exciting or developing either wet or dry small plates in the field (recommended) ... £1 1 0

*** These prices are subject to slight variation, according to the cost of materials.

FITTINGS FOR TENTS.

111111111111111111111111111111111111111					2
Gutta-Percha Developing Trays, 121 × 101, with ou	tlet pipe for	waste		9	0
Ditto, 85 × 05				5	0
Flexible Folding Trays, with waste pipe, 6s Gutta-Percha Jug, for washing negatives	••	• •	• •	7	0
Terema bug, for washing negatives				Z	U

Ebonite Developing Cups, Baths, Water-Bottles, Clips, &c.
See pages 26 and 27.

SCALES, WEIGHTS, AND MEASURES.

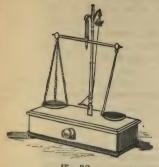






Fig. 58.		Fig. 39.	Fig. 40.
Measures	fine 30 and 40	1 01 0 1	

1 pint, 2s.; 1 pint, 3s.; 1 quart	4a.;	8.	d.
Minim on Just plat, 58., I quart		5	6
Minim or drop measures		0	-
SCALES AND WEIGHTS with close was		U	8
Scales and Weights, with glass pan and brass pillar, mounted on m	aho-		
			_
Scales and weights, with glass pans in oak box		32	U
Distriction of the glass pans in oak box		4	0
Ditto, hrass nans		_	
Sets of extra weights, from 1 grain to 2 drachms		2	9
Source Relights, from 1 grain to 2 drachms		1	0
SCALE PANS, glass, drilled and paired			-
Specific Graying Population		2	0
SPECIFIC GRAVITY BOTTLE, 500 grains, in case, with counterpoise		6	0

MISCELLANEOUS APPARATUS.



Glass

Fig. 41.



Fig. 43.



Fig. 42.



Fig. 44.



Fig. 45.

BATH TESTER, for ascertaining the quantity of silver in solution, including	s. 3	$\frac{d}{0}$
case, fig. 49 · · · · · · · · · · · · · · · · · ·	0	
Brushes for coating paper	2	_
" flat camels' hair, 1 inch 1s., 2 inch	1	
in tin ferules, 1 inch, 9d., 2 inch	0	-
,, round hog-bristle, for paste or glue, 4d. and	4	0
,, very fine, for spotting, per doz., fitch, 1s. 6d.; sable	3	
CHAMOIS LEATHER, each 1s. 6d.; large size		
Curs for suspending paper, wood, per doz.	0	6
glass, superseding the American pegs in every respect, per doz.	1	0
CUTTING KNIVES, for trimming prints	1	
DEVELOPING GLASSES, set of three	1	4
DIAMONDS, glaziers', 15s.; Ellis's best	17	-
writing 60 · hest	7	6
Because Crasses to show the image erect on the ground glass of the	0	6
camera; very useful for small views of the engravings	8	-
japanned tin, brass eye-piece	2	U
Cox's improved, in brass mounting, giving a high		
magnifying power and large field, far superior to any other combination,	5	0
highly recommended fig. 41	U	
FOCUSSING CLOTH, India-rubber cambric, very light in weight and im-	4	0
pervious to daylight, 36×30 , 58 , $6a$.; 50×24	0	10
FORCEPS for removing paper from solutions, ebonite		
GLASS SHAPES for cutting paper Photographs to size, bevelled and polished		
adges fig 42 oval, square, or dome, a, a, or	2	0
size, $6d$.; $\frac{1}{4}$, $8d$.; $\frac{1}{3}$, $1s$.; $\frac{1}{2}$, or cabinet, $1s$. $6d$.; whole size	3	
with ground surface and knob, 1s., 1s. bd., 2s. 3d	30	_
complete set, in box, with knife	9	_
India-rubber cloth, for tents, 60-inch wide, per yard	7	_
gloves or gauntlets, per pair	2	
finger stalls, each 3d., per doz	1	0
sheet, for water-tight bath-tops, cut to size, per oz.	1	0
bellows for blowing off dust, &c.		10
tubing per foot, 3-inch, 7d.; 1-inch	3	
JET-BLACK PAPER for mounting positives, per sheet, 2d.; quire	-	
M Craw for comenting glass, per cake	0	0
More A course Grass for dark room, yellow, per sq. 100t, 18. 0a., ruby	2	
Crry for dark room, per vard, 33 inch wide	5	U
PAPER MASKS, with oval openings, any size, for medallion or double		8
· · · I plate per dez fid larger size · · · · ·	0	0
Dromogna pure Langern, with vellow glass shades; for use when it is		C
requisite to employ artificial light in developing, &c	4	
with movable shades, very superior	6	
Candles for ditto, each	0	
Prins for suspending paper, per box	1	0
for factoring paper to wood, per doz	1	0

PLATED PAINEDS for Aunt			
PLATED RAINERS for drying negatives, folding, fig. 43, 12 grooves,	up		
2 Plate Size, 18. 9a.; Iuli size		2	6
24 grooves, 2s. 3d.: full size			
SILVER WIRE for corners of dark slides, per foot		3	0
orthogotal dark singes, per foot		1	0
Hocks for Vivi		1	6
11 IIUUNS IOF HITING prepared plates from 1 /1 1			0
CIALL LEVELS, 5 Inches long	• •	1	-
giranlan &- 44		3	0
circular, fig. 44		3	6
STIRRING Rods, each 3d. and		0	4
THERMOMETERS, 18.; best	• •	-	-
	• •	2	0
		4	6
WATER-BOTTLE for tourists, a, fig. 45, \(\frac{3}{4}\) gallon		6	6
,, 1 gallon		8	6
VALVES for ditto h fa 45 0-	• •	0	-
WASHING APPLA APPLA		1	0
WASHING APPARATUS, circular zinc trough, 24 in. diameter, with p	er-		
water self-acting sypnon pipe to draw off the was	ste		
		25	0
		21	
Ditto, 18 inch YELLOW, ORANGE, AND BLACK TWILL, per yard, various		41	0
DEACK I WILL, per yard, various		- 1	0

Separate Parts of Apparatus and Loose Fittings of every description, Camera Hinges and Screws, Clamp Nuts, Brass Springs for Doors, Flanges for Lenses, &c.

CHEMICAL APPARATUS.

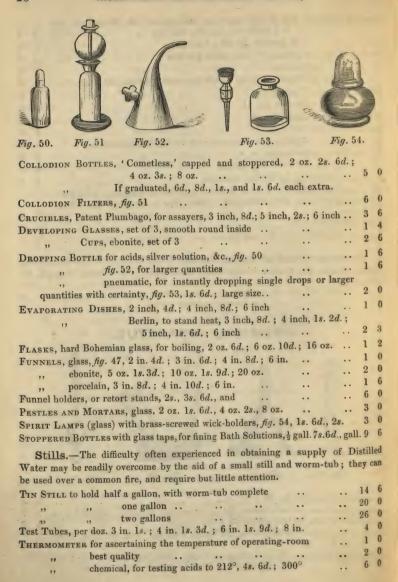








	Fig. 46.	Fig. 47.	1. 1.64	Fig. 48.	Fig. 49.		
ALBUMI	N FILTERS	, fig. 48	* * 1.1. r = 2		usted, packed in case	s. 3	d 0
Immersi	on Tubes, o	r trial glasses f	or ditto			3	0
16	oz. 1s.; 32	0Z			3 oz. 6d.; 7 oz. 10d.;	1	6
Collod	ON BOTTLE	ls. 9d.;	ground stop 4 oz. 2s. 6d	pers and li	ip, 1 oz. 1s. 4d.; 2 oz.	4	0



STEREOSCOPES AND GRAPHOSCOPES.

1100001		.0.	
Stereoscope, mahogany, with prismatic lenses			
hinged ton for cleaning the cleans and I	0	3	0
is fixed a reflector for throwing light on the picture	0	5	6
Walnut-wood, with hinged top, door, and reflector	0	9	0
Best quality walnut-wood Zebra-wood Stereoscope, with adjustment		12	6
Stereoscope, with adjustments similar to an opera or race glass	0	14	0
best quality, achromatic	0	17	6
" best quality, achromatic " gilt bars	1	5	0
Revolving and	1	15	0
Revolving, or magazine stereoscope, to exhibit 36 pictures, plain			
The state of the s		11	6
" water actionatic lenses, nandsome walnut-wood	9	10	0
" achromatic lenses, for 50 pictures, very handsomely			
Stereoscopic Vices	4	10	0
Stereoscopic Views, on paper, according to quality, from, per doz., 6s. to	0	18	0
production stereoscopes, best quality, per pair	0	2	0
Graphoscope - This modern and unique in the state of the	lak	la 11	100
drawing-room, bringing out with roundness and solidity the minute detail	Of	f pla	in
	OI	Pro	LILL
Small size, plain mahogany, with 4-inch lens	0	17	6
14-mich lens, and an arrangement by which it can be and for	U	2.1	U
objections, upylating many of the inconveniences ownering at			
	2	2	0
large size, h-inch leng vengered bind's and mel-	-	-	U
handsomely finished	3	10	0
	-	-	

PHOTOGRAPHIC PAPERS.

PLAIN PAPER.				
BLACK PAPER for mounting positives, per sheet, 2d.; per quire ORANGE PAPER, non actinic, per sheet, 2d.; per quire PAPIER RIVE, per ream	••	0	3 3 10	6 0
PAPIER SAXE, positive, 23 × 17 inches, per quire per ream for enlargements, 54 inches wide, in rolls, per yard		$0 \\ 0 \\ 2$	-	6 6 6
FILTERING PAPER.	••	0	î	4

FILTERING, in packets of 100						 0	0	6
" 7 in. diameter						 0	0	9
,, 10 ,,						 0	1	0
,, 15 ,,						 0	1	6
Thick Filter Paper, very stro	ng and	tough	, 22 ×	21, per	quire	 0	2	0

ALBUMENIZED PAPER.

FREDERICK J. Cox begs to call especial attention to the quality and uniformity of the following papers; they are selected with the greatest care, and prepared only with pure fresh albumen, and are confidently recommended as being of superior excellence and always alike. Fresh Albumen only is used in their preparation, therefore the pictures are far more permanent than if printed on the cheap foreign decomposed paper.

No. 1. Albumenized Paper. This paper is carefully albumenized and rolled, it is very economical, and salted to work with a 35-grain bath, and may be relied upon with confidence.

eneu	upon	ALTOIT	COMING	CHOO						PK	10	Λ
Per	ream				4.60		0.0			£5	10	v
101	200022	100								0	6	n
	quire							77, 100		U	U	U
13	-I									0	3	6
	dozen				24.4			TO GO		U	U	U
										0	2	0
	6 shee	ets		.00			* *.	14 1		v	~	

No. 2. Albumenized Paper. Superior quality. This is the very best rive paper, carefully selected and highly albumenized, suitable for a 40-grain bath. Per ream, £7; per quire, 7s. 6d.; per dozen sheets Ditto, Papier Saxe, of the best quality, at the same price as No. 2 Rive.

Note.-The No. 1 paper is that most usually in demand, and is the same so long sold by us as 'Cox's albumenized.' The No. 2 is prepared in a similar manner, but the paper undergoes a special preparation before it is albumenized, and is considered to be somewhat harder and less porous than the No. 1.

'Rose' ALBUMENIZED PAPER. This paper has a rose, or Magenta tint, which is permanent, and imparts a warm tone to the picture, $22\frac{1}{2} \times 17$, per 12s. 6d. quire

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Newman's Cole	ours, for tinting collodion pictures, in boxes g 9 colours, 6 brushes, and gold shell	-	s. 10	d. 6
Ditto, with lock	and key, 12 colours and two shells	1	0	0
	, 18 ,,	1	5	0
		1	10	0
,, ,	36	2	0	0
	Single colours in small bottles, 1s.			

WATER-COLOURS FOR PAPER PHOTOGRAPHS

									VIOLET	TTO:		
Slidi	ng-ton	howen	10	TUIT	m;	UNE	8.	d.		8.	d.	
MILL	ng-top	Duxes,	12	colours	and	brushes	 7	0		9	0	
	"?		10		22		 10	6		13	0	
Boyc	99	lock,	24		."99		 14	0		18	0	
DOZO					11		10	6		19	6	
	"		18		" "		 14	0		18		
	2.7		24				18	0		95	0	

The higher prices in the second column are caused by more expensive, but necessary, colours and brushes. Single cakes of colours from 6d, to 1s, each.

Camel-hair brushes per doz. ls 6d to	10 15	2. 65
Sable per doz. 1s. 6d. to	2	0
Dable	4	0
as distille	Ā	ñ
Gold and silver shells or cups	°E C	0
Elastic bottle, for removing superfluous colour, each	0	0
superfluous colour, each	-1	4

Newman's colouring varnish, 1s. and 3s. per bottle.

- penetrating varnish for non-inverted positives, per bottle, 1s. 6d. and 3s.
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TRAYS, imitation leather, 1, 8d.; 1, 10d.; 1, 1s. 4d. per dozen.

STEREOSCOPIC, CABINET, & CARTE-DE-VISITE d. 6 0 6 3 0

CARDBOARD MOUNTS.			8.
Stereoscopic Passe-Partouts, for glass pictures, per doz. "Card mounts, best enamel, per gross "Enamel back and front, per gross Cabinet mounts, plain card, per doz. 6d.; per 100 Enamel, per doz. 8d. per 100 "with coloured line round margin, "per 100		oz. 9 <i>d</i>	. 3 4 . 4 . 3 . 4 5
Carte-de-Visite Card Mounts, per 1000 Superior, 9d. per 100, per 1000 Extra superfine, stout, 1s. per 100, per 1 Toned card, round corners, 1s. 4d. per 10 Enamel card, 1s. 3d. per 100, per 1000 Ditto, with coloured line round the n lilac, blue, green, or red, 1s. 9d. per Ornamental oval centre, for medallions, 1 PRINTING NAME AND ADDRESS ON BACK OF CARD, per 10 Engraving copper-plate, 2s. 6d. to 7s.	000 00, pe nargin 100,	er 1000 n, eith per 100	7 9 13 11 er 00 15
MOUNTING BOARDS.			
FOR MOUNTING PAPER PHOTOGRAPHS		•	
U V / 5 118 X 3 109 ~ 2-4	8 × 14 3s.		$3 \times 18\frac{1}{4}$ s. 6d.
	4	8.	5s. 9d.
CUT-OUT CARD MOUNTS of the usual photographic sizes	, with	n one	opening
Outside size $12\frac{1}{2} \times 10\frac{1}{4}$ $10\frac{1}{2} \times 8\frac{1}{2}$ $8 \times 6\frac{1}{2}$ For pictures whole plate $\frac{1}{2}$ plate $\frac{1}{3}$ plate	7 ‡ 1	× 5¾ plate	$\begin{array}{c} 5\frac{1}{2} \times 4 \\ \text{C. V.} \end{array}$
SMOOTH CARD, white 4s. 6d. 3s. 4d. 2s. 3d Continued, per doz. 5s. 6d. 4s. 2s. 9d Continued Card Card		1s. 9d. 2s. 3d.	
SHOW FRAMES AND MOUN	rs.	s.	d.
Card-hoard Mounts, with 4 C. V. openings, each		1	3
6 " "	**	1 2	9
,, 12		3	6
Show Frame, narrow gilt moulding, with perforated c	ard,	0	6
4 C. V. openings, glass, and backboard		2	9
,, six openings		3 6	9
sixteen C.V. and two half-plate		13	6
twenty C.V. and one whole-plate	• •	14	6

GLASS PLATES, &c.

The selection of glass plates is made an especial feature, and the quality of best polished crown, extra thick-flatted crown, and patent plate, can be at all times guaranteed.

anoccu,												
Inches $2\frac{1}{2} \times 2$		Best Polishe Crown Per gros s. d. 1 9	s.	Fla Per	Polish own atted gross d.	. 1	Extra Flatted Per g:	Cror	wn.	Pate Plat Per d	te. loz.	Opal Patent Plate. Per doz. s. d.
$3\frac{1}{4} \times 2\frac{3}{4}$		3 6								W EN	TO THE	DON BEEN
$4\frac{1}{4} \times 3\frac{1}{4}$		6 6		11	0		14	6		1	6	6 6
5 × 4		10 0		16	0		22	0		2	3	6 6 8 0
$6\frac{3}{4} \times 3\frac{1}{4}$		11 0		17	6		23	0	Market No.	2	6	0 0
$6\frac{1}{2} \times 4\frac{1}{4}$		_		24	0		31	6		3	0	
$6\frac{1}{2} \times 4\frac{3}{4}$		15 0		26	6		34	0		3	8	14 0
7¼× 4½		_		27	6		38	0		4	0	
$8\frac{1}{2} \times 6\frac{1}{2}$		30 0		52	0		70	0		7	0	22 0
9 × 7		_					84	0		8	3	28 0
10 × 8	**				-		120	0		12	6	36 0
12 × 10		-					200	0		21	0	HUN.

** Where the price is quoted at per gross, small quantities will be charged rather higher.

The BEST POLISHED CROWN glass is an article really good, and recommended; for positives nothing better can be required, and is suitable for small-size negatives.

We now supply the BEST POLISHED CROWN of the usual thickness, FLATTED, and where strength is not important it is in much use.

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5 × 5	6 × 6	7 × 7	8 × 8	10 × 10	12 × 12
Best 9d.	10d.	1s. 2d.	1s. 6d.	2s. 6d.	3s.
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ADAMANTINE FILES, for removing the edges of glass plates, 1s. each.

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TANNIN PROCESS.

41 × 31 5×4 63×31 61×43 71×41 81×61 9×7 10×8 7s. 8s. 6d. 168. 238. 108. 5s. 6d. Per dozen. 45.

Full Instructions for Exposure and Development are sent with each dozen plates.

The extra sensitive Plates are the same price as the ordinary.

METAL PLATES, &c.

					70.00
	Metal Lates.	Transfer C	1.	American	d.
Per dozen.	8. 4.	0 :	3	1	0
$2\frac{1}{2} \times 2$ inches	0 6	0	6	1	9
31 × 23 ,,	0 10	0	9	3	0
41 × 31 ,,	1 2	The second second second		d for t	

AMERICAN MUSLIN AND TRANSFER CLOTH are employed for transferring pictures from a glass positive. See the Compendium of Photography, 11th edition, by FREDERICK J. Cox, post free 7 stamps.

The increased demand for Positives on Iron Tablets enables us to offer a superior article at a considerable reduction in price.

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quantity	Other Co.	mov 1:300 lb
Acid, acetic, glacial, solid at 50°, citric (variable) , formic , gallic, hydrochloric, nitric, 1'450, 1'500	0 3 3 6 1s.; gallon, 6s. 1 0 14 0 Ammonia, pure bichromate carbonate carbonate muriate.	# oz. # lb s. d. 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
1.500	0 3 2 6 , hydro-sulphide	1 0 12 0 3 0 36 0 0 2 1 9

PURE CHEMICAL AND PHOTOGRAPHIC PREPARATIONS.

(Continued.)

	1#	¥ 02	. 1 1	lb lb	
Baryta, nitrate, pure			d. 8	. d	02. # 1b
Cadmium, bromide	. (2 1		6 Lime, carbonate 8. d. s. d. 0 2 1 0
oblania.	. 2		6 32	(I lime chlorida
,, chloride.	. 3		0 36	(Litmus paper, book, 2d.
Calcium book	. 3		0 36	(Il Magnesia pitroto
Calcium, bromide	. 2		6 32	(Warnesium will-
Charcoal, animal	. 0		2 0	6	Neronary
Collodion, negative	. 0		6 7	6	Pollodium Illiai 0 8 7 6
Colledia positive	. 0		6 7	6	
Collodio-chloride of Silver				V	
10 028, 38, h//	1		100		Potass, bichromate, pure 0 2 2 0
Copper, sulphate num	0		2 1	0	,, caustic 0 4 1 0
COLLOIT MOOI	1 0		3 3	0	", chlorate 0 2 1 0
Developing solution	0		0 0	U	,, nitrate, pure 0 2 1 0
,, iron, for positive			1		nermanganate 1 c
or negatives pint, 9d	5		1000		Potassium, bromide
" pyrogallicfornega					iodide (variable) 2 0 24 0 24 0 2 0
lives nint la CJ	1-11-11		1		sulphuret in bots 2 0
Dextrine for mounting paper	1				Silver, iodide 8 0 2 0
pictures mounting paper	1				nituate 1 131 7
pictures	0	2	1	0	" re-crystallized 54 8
					for negative hath
plates, 5 oz. bottles, 5s. 6d.	1		1		Silver bath, ready for use,
Encaustic paste, for produc-	1				
a glass-like curtoes on					1 50012 huno and -1:4-
prints, per not le	1		1		Soua, hypo-sulphite 0 2 0 4
Luice, suiphuric .750	0	6	6	0	", 7-lbs., 1s. 9d.;
" absolute	0	8		6	per cwt. 21s.
" methylated	0	3		0	,, acetate 0 2 1 0
solution for nositives					,, carbonate 0 2 1 0
of Hegalives non mint 67	1		-		,, nitrate 0 2 1 4
Gelatine, pure	0	6	5	0	,, phosphate 0 2 1 4
" LICISON'S, 8-02				V	,, tunsgate 0 3 1 9
Glycerine packets, 3s.				95	Sodium, chloride 0 2 2 0
Glycerine	0	4	4	0	Sugar of milk 0 3 3 0
out, emoride i de hottle		*	4	0	Toning Bath, pint, 1s. 6d.
					", ", Cox's Lime, a
" in 1 drachm bottle, 7s.		43			superior preparation, keep-
" Solution for toning both	0	17			ing well, 1s. per bottle.
dum Arabic, best Turker	0	7	9.		Tripoli, prepared 0 3 2 6 Uranium, nitrate 2 6
Gun cotton		4	3	0	Uranium, nitrate 2 6
	3		34		varnish, Bate's black, 6d. bot.
India-rubber solution for	4	0	46	0	,, Cox's negative, ls. bot 4 0
mounting, per bottle, 1s.		0			,, Soehnée, 1s. 9d.
Iodine, pure re-sublimed	•		-		,, Transfer, 1s.
	2		32	0	" Non-actinic, for pre-
Iron pro-sulphoto	0	6			paring glass for dark
Iron, pro-sulphate, pure			0	6	rooms, &c., 1s.
,, double sulphate and ammonia	150		7		, Retouching, 1s.
Kaolin pura	0	2	1	0	Water, distilled, gallon, 6d.
Kaolin, pure washed	0	2	0	0	White wax 0 3 3 0
Lead, acetate	0	3	2	0	Zinc, nitrate 0 6 5 6
,, nitrate	0	3	2	61	,, chloride 0 4 4 0
					OR STORY OF THE PARTY OF THE PA

FREDERICK J. COX, 26 Ludgate Hill, London.

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RIVE PAPER, especially for C. D. V. portraits; our own preparation: and recommended with confidence. See page 30.

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